

IN THE CLAIMS:

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1. (Amended) A system comprising:
a process chamber ^{no membrane} having a feed inlet, a low pressure outlet and a high pressure outlet;
a feed pump;
a common shaft having rotatably coupled thereto a booster pump, fluidically coupled between said feed pump and said feed inlet, and an energy recovery turbine fluidically coupled to said high pressure outlet through a first channel, said energy recovery turbine drives said booster pump; and
a second channel fluidically coupling an input of said process chamber and said high pressure outlet.
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